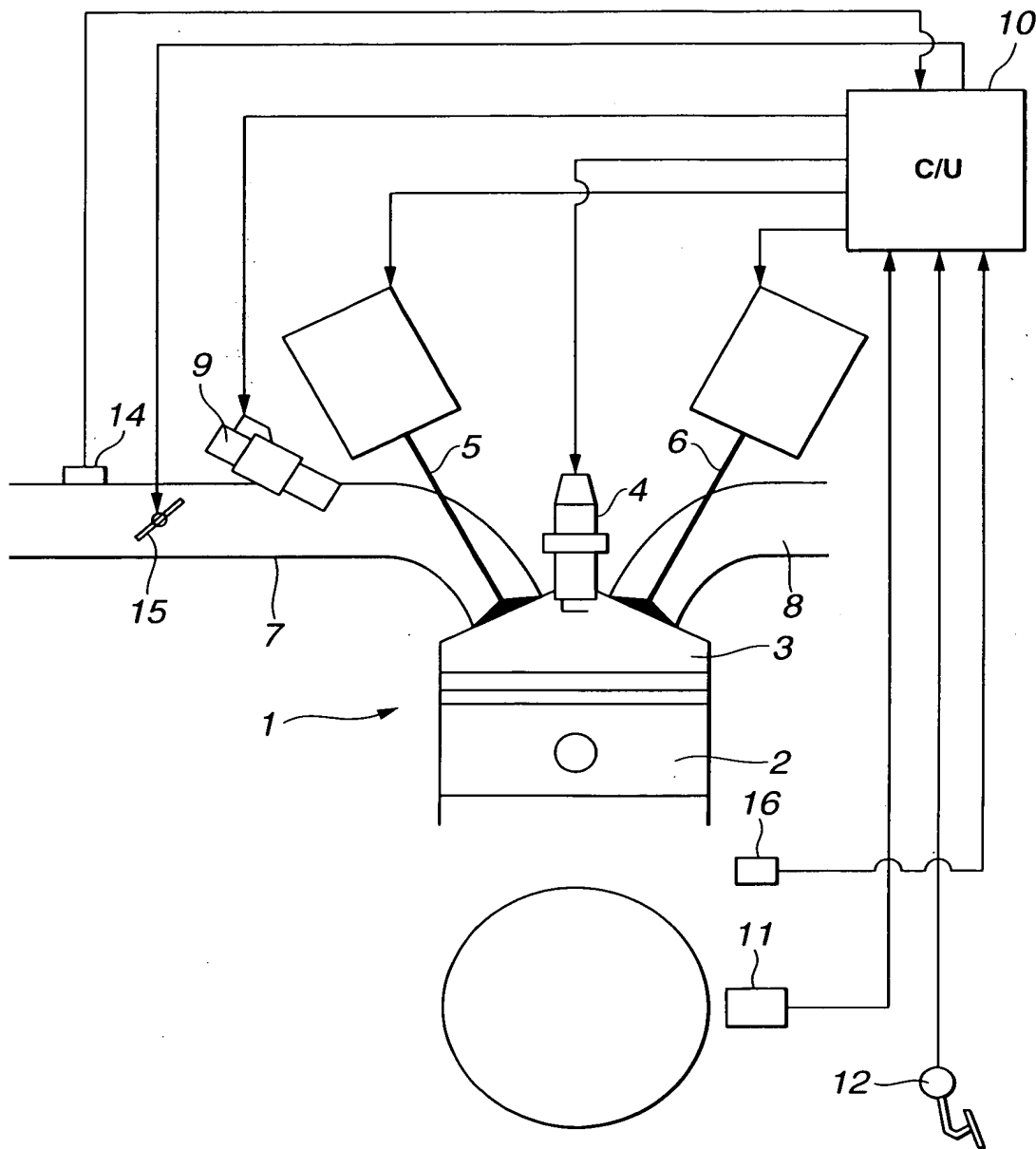


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| APPROVED: | O.G. FIG. | |
| BY | CLASS | SUBCLASS |
| DRAFTSMAN | | |

Title: INTERNAL EGR QUANTITY
ESTIMATION, CYLINDER INTAKE AIR
QUANTITY CALCULATION, VALVE TIMING
CONTROL, AND IGNITION TIMING CONTROL
Inventor(s): Takao KAWASAKI et al.
Appl. No.: Unknown

FIG.1

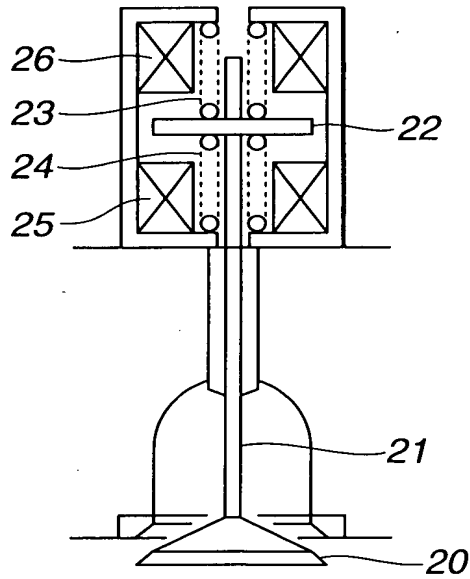


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| APPROVED | O.G. FIG. | |
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Inventor(s): Takao KAWASAKI et al.
Appl. No.: Unknown

FIG.2

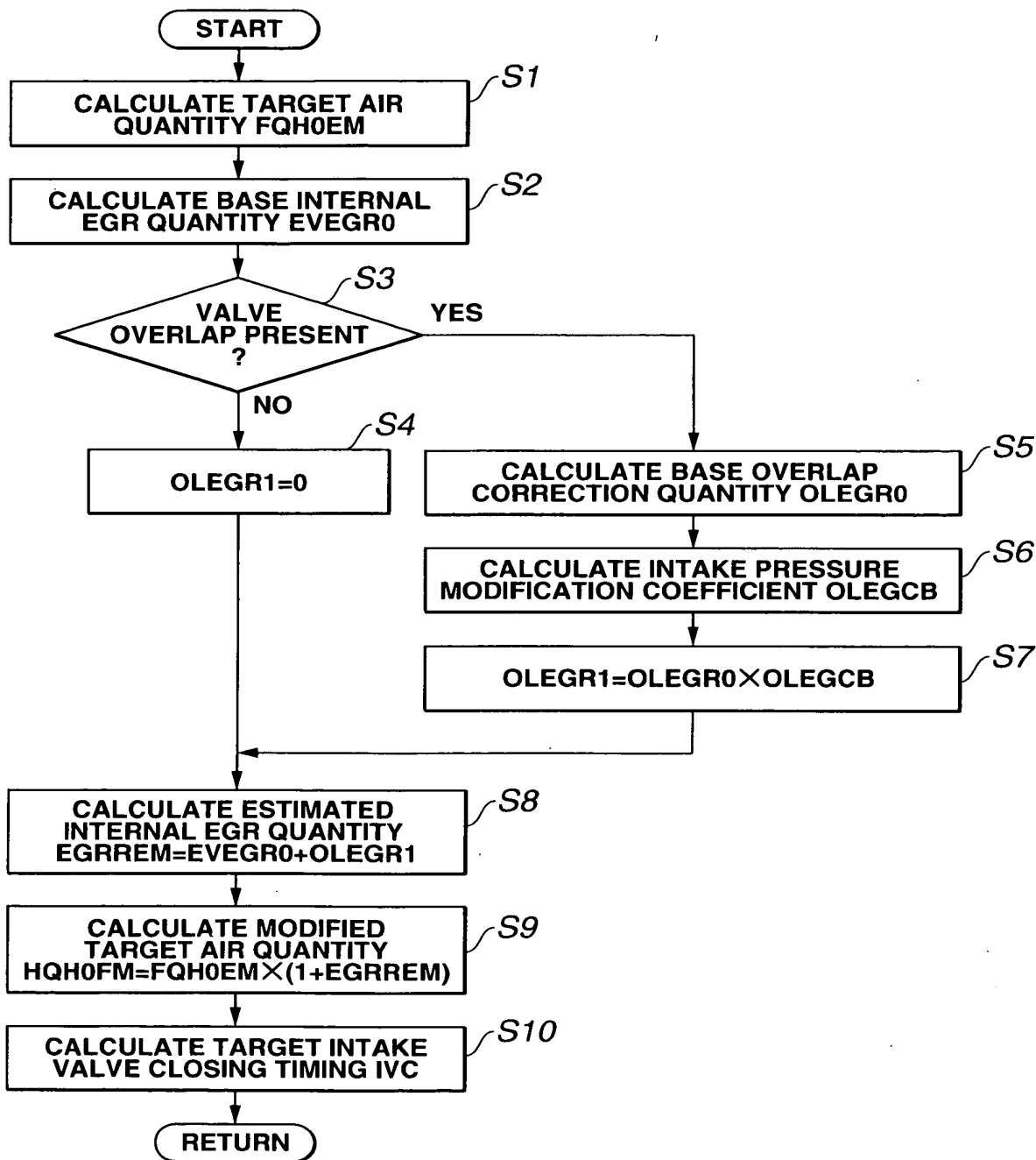


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| APPROVED | O.G. FIG. |
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Title: INTERNAL EGR QUANTITY
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CONTROL, AND IGNITION TIMING CONTROL
Inventor(s): Takao KAWASAKI et al.
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FIG.3



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| | | |
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| APPROVED | O.G. FIG. | |
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QUANTITY CALCULATION, VALVE TIMING
CONTROL, AND IGNITION TIMING CONTROL
Inventor(s): Takao KAWASAKI et al.
Appl. No.: Unknown

FIG.4

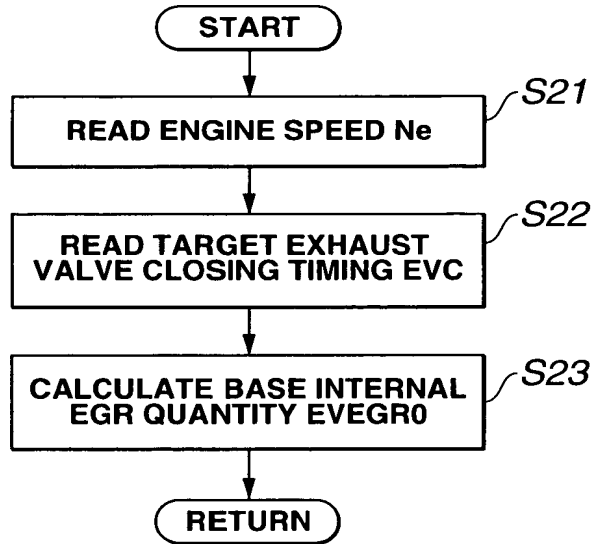
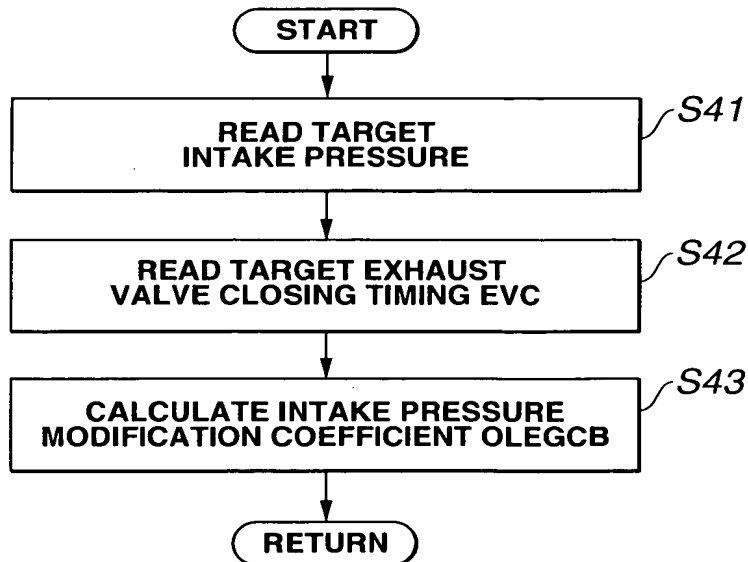


FIG.6

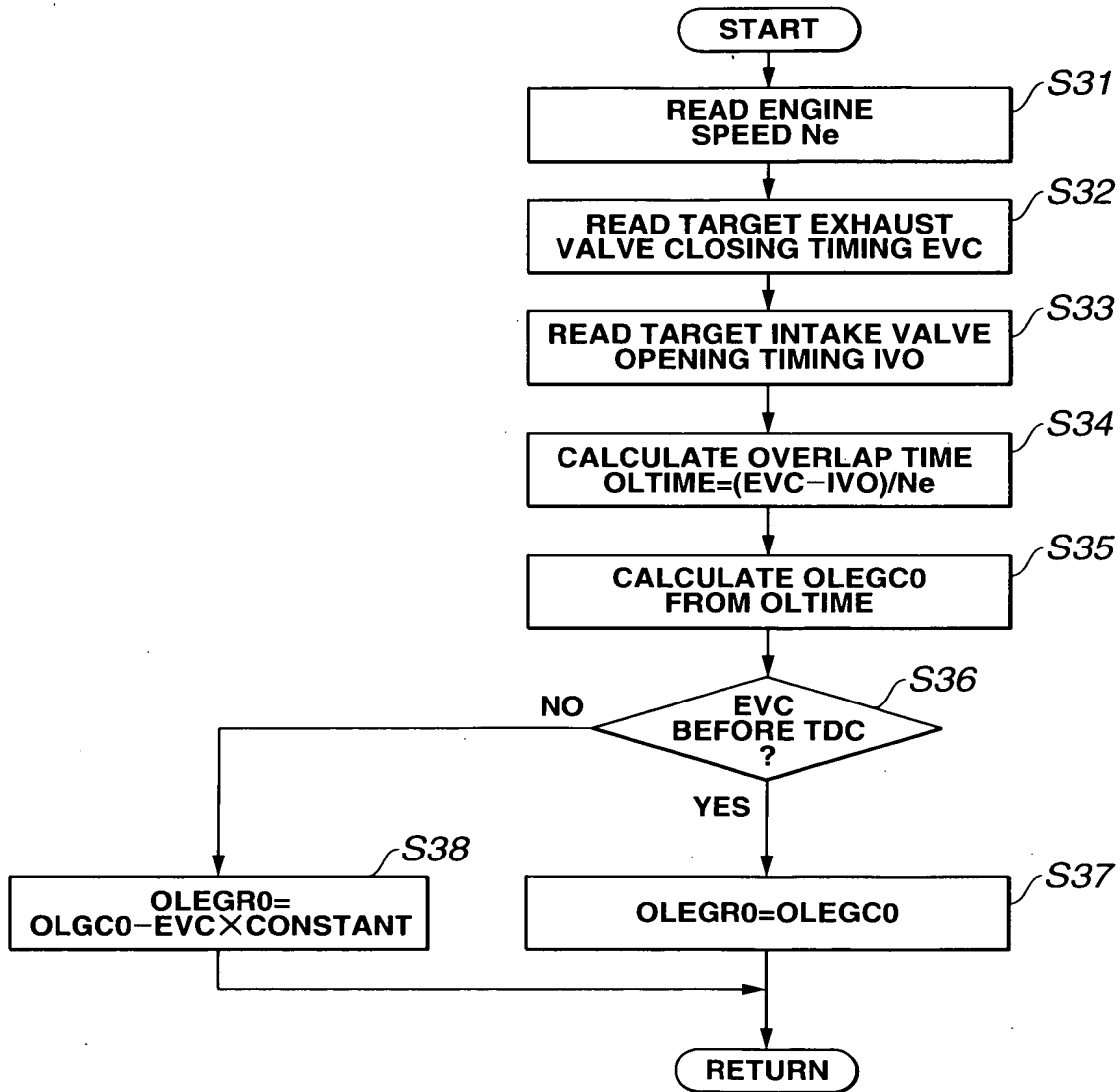


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| APPROVED | O.G. FIG. | |
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| DRAFTSMAN | | |

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QUANTITY CALCULATION, VALVE TIMING
CONTROL, AND IGNITION TIMING CONTROL
Inventor(s): Takao KAWASAKI et al.
Appl. No.: Unknown

FIG.5



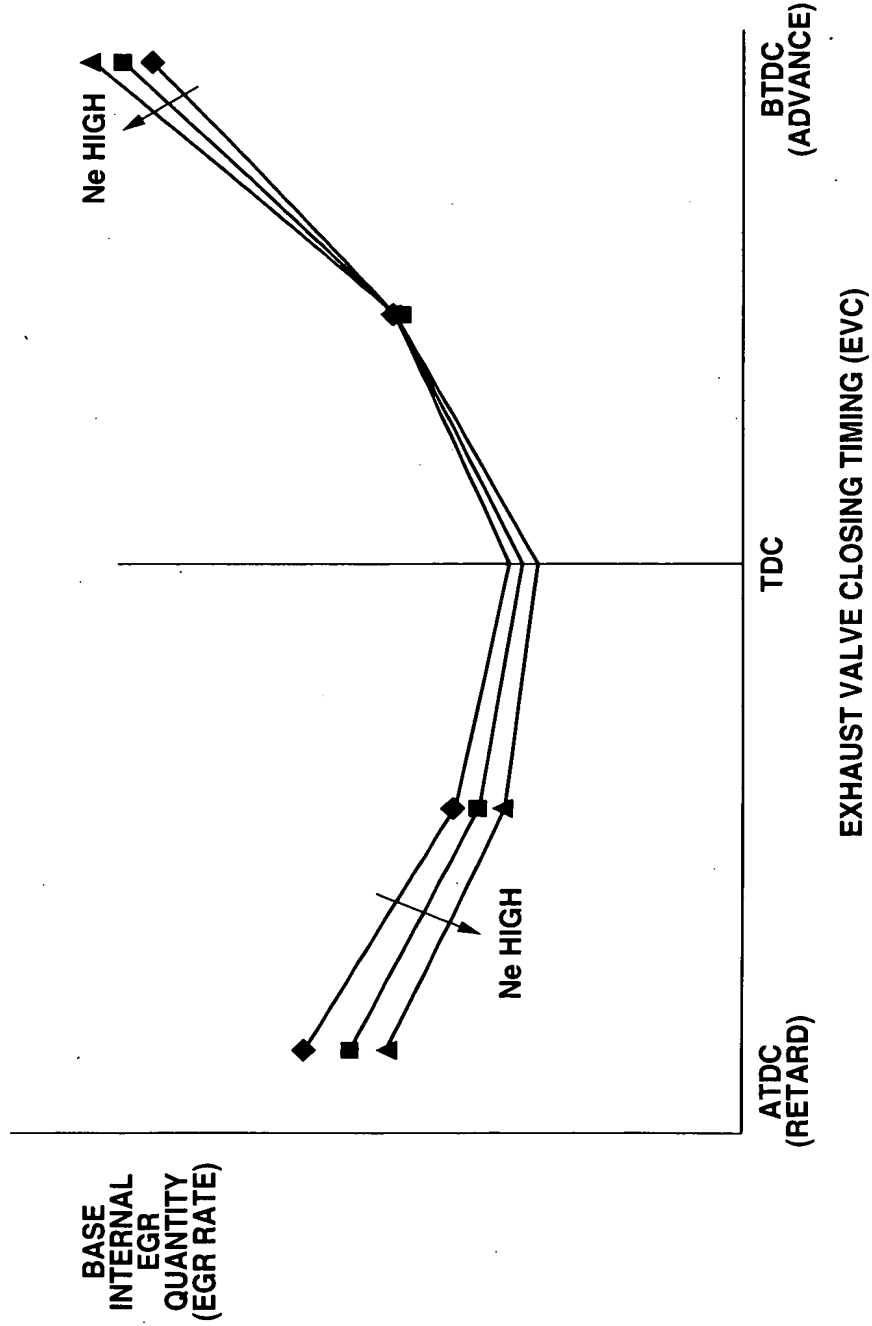
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| APPROVED | O.G. FIG. | |
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| DRAFTSMAN | " | " |

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QUANTITY CALCULATION, VALVE TIMING
CONTROL, AND IGNITION TIMING CONTROL
Inventor(s): Takao KAWASAKI et al.
Appl. No.: Unknown

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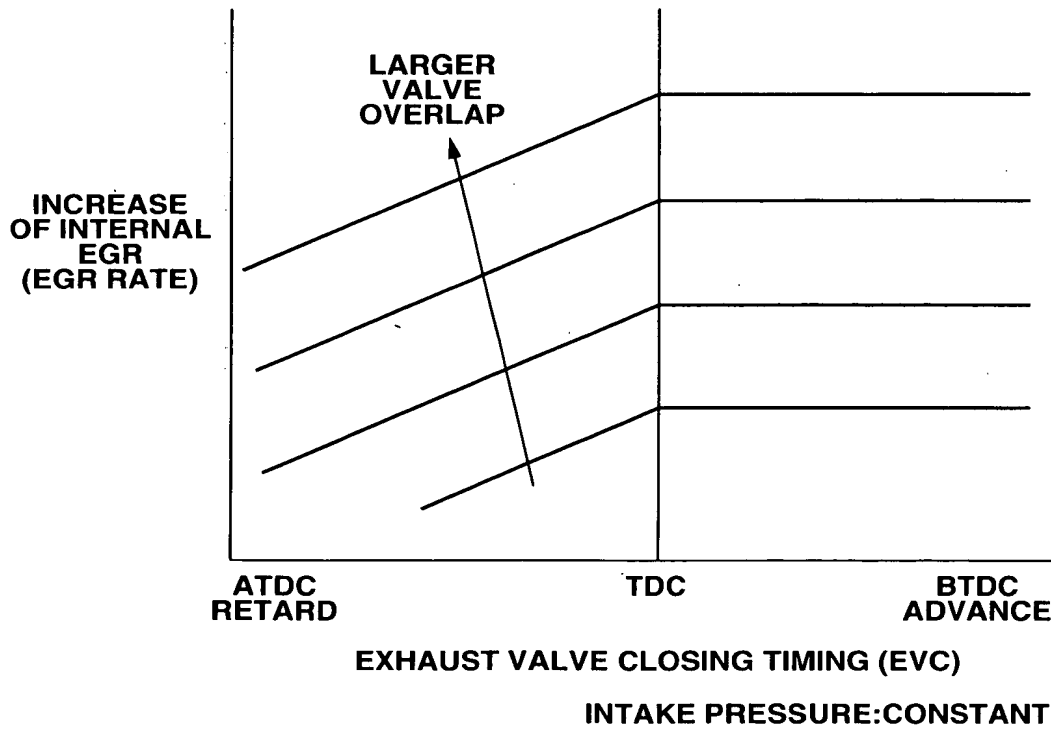
FIG.7



| | | |
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| APPROVED | O.G. FIG. | |
| BY | CLASS | SUBCLASS |
| DRAFTSMAN | | |

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CONTROL, AND IGNITION TIMING CONTROL
Inventor(s): Takao KAWASAKI et al.
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FIG.8



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| APPROVED | O.G. FIG. | |
| BY | CLASS | SUBCLASS |
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QUANTITY CALCULATION, VALVE TIMING
CONTROL, AND IGNITION TIMING CONTROL
Inventor(s): Takao KAWASAKI et al.
Appl. No.: Unknown

FIG.9

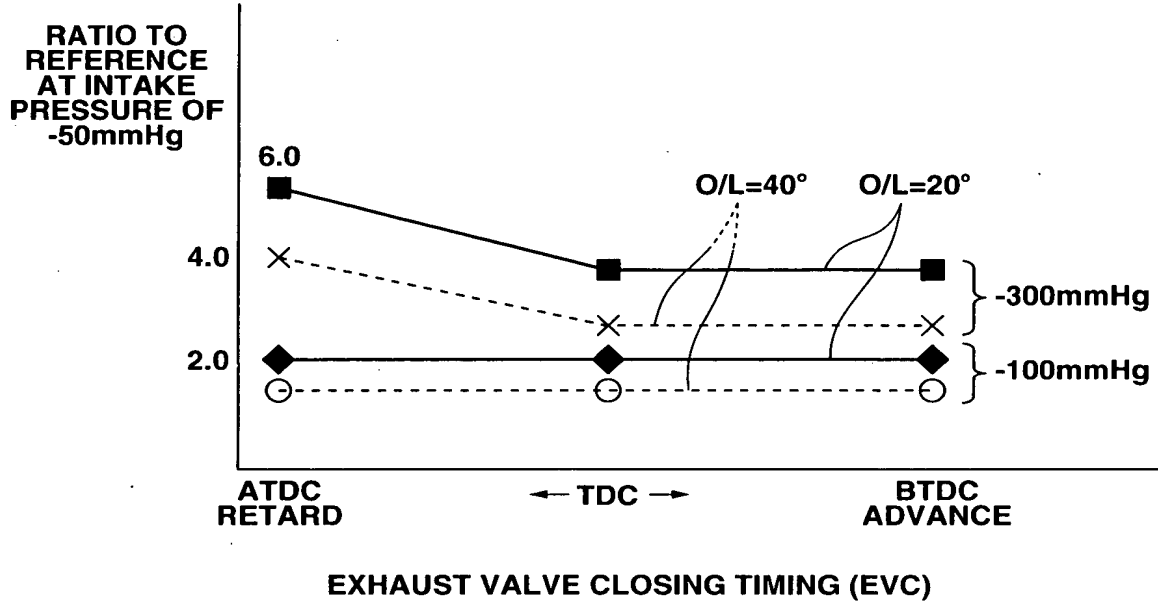


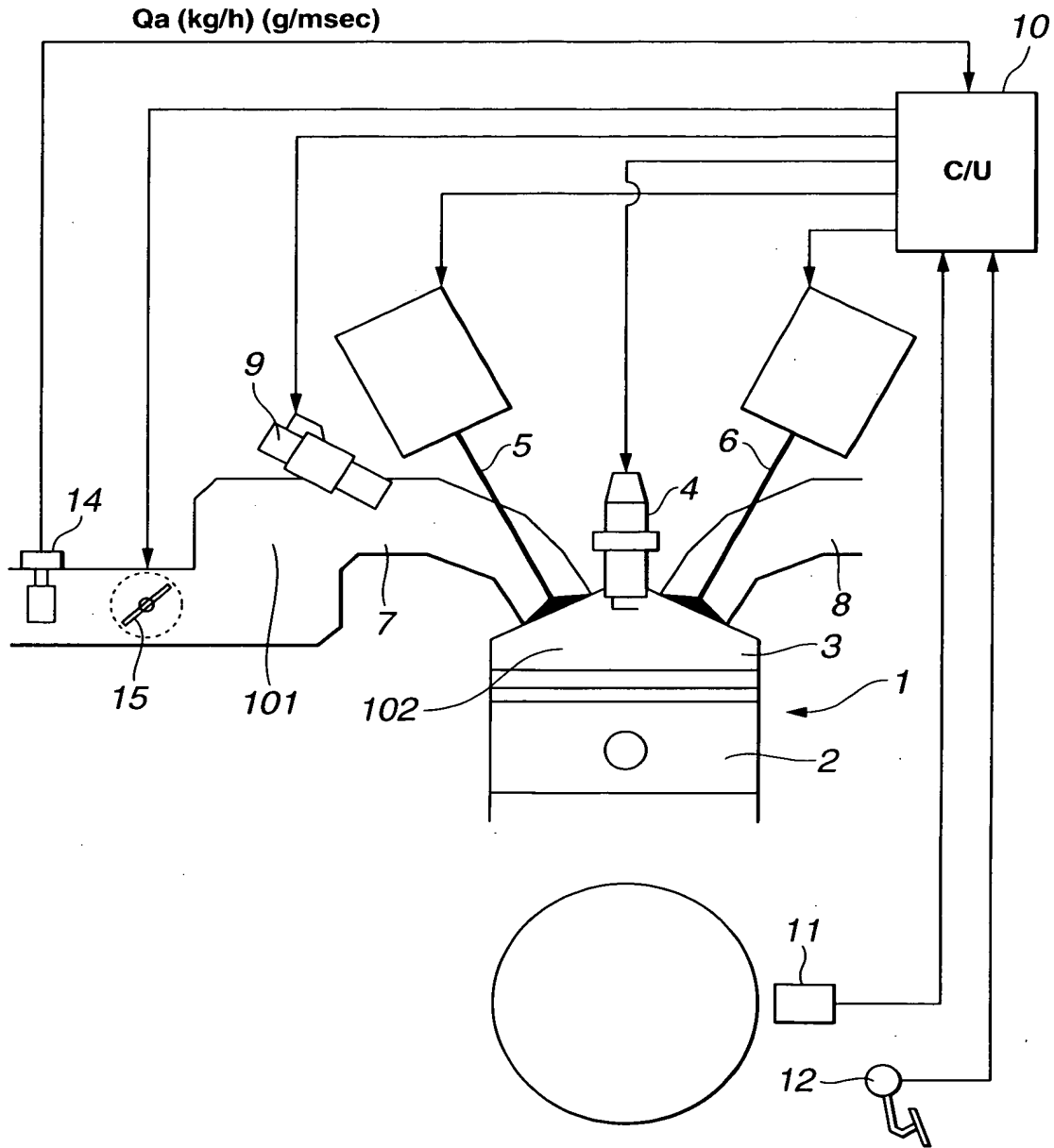
FIG.10



| | | |
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| APPROVED | O.G. FIG. | |
| BY | CLASS | SUBCLASS |
| DRAFTSMAN | | |

Title: INTERNAL EGR QUANTITY
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QUANTITY CALCULATION, VALVE TIMING
CONTROL, AND IGNITION TIMING CONTROL
Inventor(s): Takao KAWASAKI et al.
Appl. No.: Unknown

FIG.11

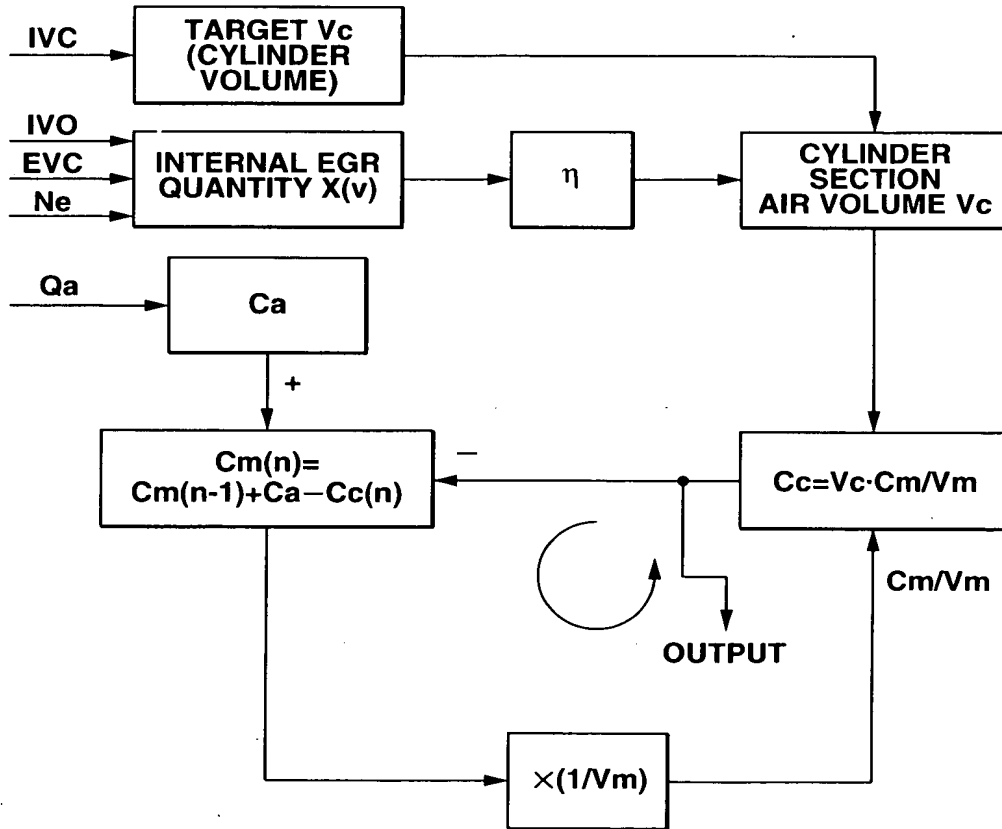


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| APPROVED | O.G. FIG. | |
| BY | CLASS | SUBCLASS |
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CONTROL, AND IGNITION TIMING CONTROL
Inventor(s): Takao KAWASAKI et al.
Appl. No.: Unknown

FIG.12



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| | | |
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| APPROVED | O.G. FIG. | |
| BY | CLASS | SUBCLASS |
| CRAFTSMAN | | |

Title: INTERNAL EGR QUANTITY
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QUANTITY CALCULATION, VALVE TIMING
CONTROL, AND IGNITION TIMING CONTROL
Inventor(s): Takao KAWASAKI et al.
Appl. No.: Unknown

FIG.13

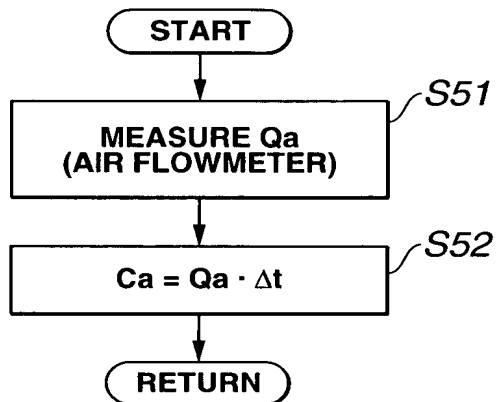
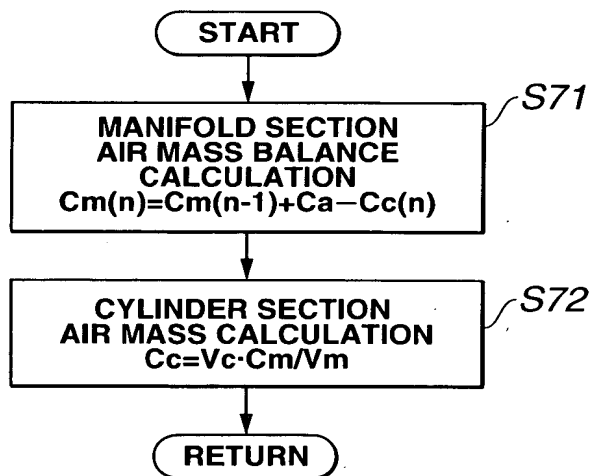


FIG.15

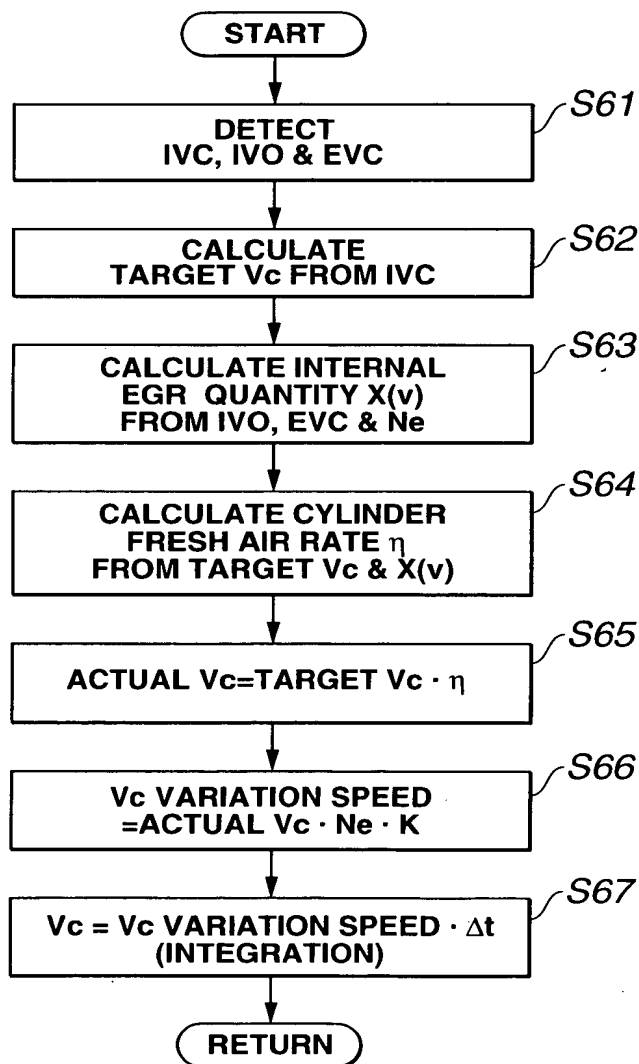


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| APPROVED | O.G. FIG. | |
| BY | CLASS | SUBCLASS |
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QUANTITY CALCULATION, VALVE TIMING
CONTROL, AND IGNITION TIMING CONTROL
Inventor(s): Takao KAWASAKI et al.
Appl. No.: Unknown

FIG.14



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| APPROVED | O.G. FIG. |
| BY | CLASS SUBCLASS |
| DRAFTSMAN | |

Title: INTERNAL EGR QUANTITY
ESTIMATION, CYLINDER INTAKE AIR
QUANTITY CALCULATION, VALVE TIMING
CONTROL, AND IGNITION TIMING CONTROL
Inventor(s): Takao KAWASAKI et al.
Appl. No.: Unknown

FIG.16

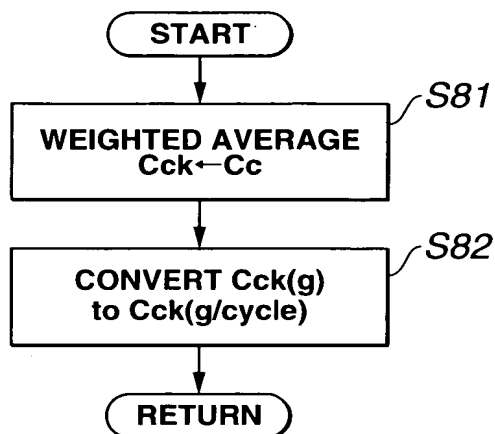
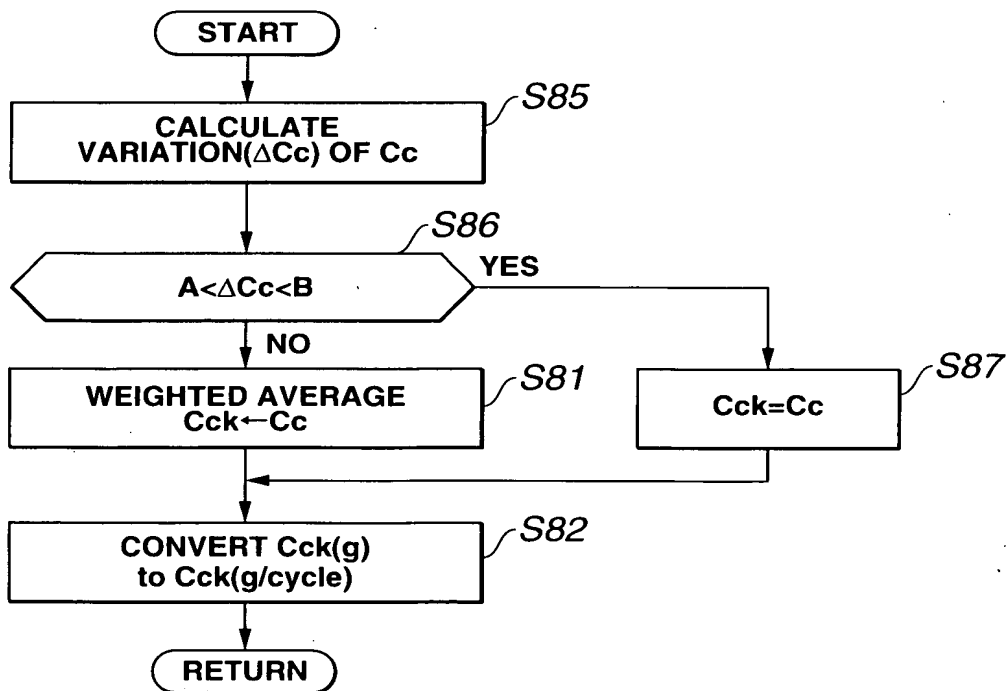


FIG.17



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| APPROVED | O.G. FIG. | |
| BY | CLASS | SUBCLASS |
| DRAFTSMAN | | |

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Inventor(s): Takao KAWASAKI et al.
Appl. No.: Unknown

FIG.18

